

## Quantitative analysis

Read through the whole method before starting any practical work. Where appropriate, prepare a table for your results in the space provided.

Show your working and appropriate significant figures in the final answer to **each** step of your calculations.

- 1 In this experiment you will carry out a titration to determine the relative formula mass,  $M_r$ , of a monoprotic acid, HX.

**FA 1** is HX, the monoprotic acid.

**FA 2** is  $0.0450 \text{ mol dm}^{-3}$  sodium carbonate,  $\text{Na}_2\text{CO}_3$ .  
methyl orange indicator

### (a) Method

#### Preparing a solution of FA 1

- Weigh the empty  $250 \text{ cm}^3$  beaker. Record the mass.
- Transfer all the **FA 1** into the beaker.
- Weigh the beaker and **FA 1**. Record the mass.
- Calculate and record the mass of **FA 1** used.
- Add approximately  $100 \text{ cm}^3$  of distilled water to the **FA 1** in the beaker.
- Stir the mixture with a glass rod until all the **FA 1** has dissolved.
- Transfer this solution into the  $250 \text{ cm}^3$  volumetric flask.
- Wash the beaker with distilled water and transfer the washings to the volumetric flask.
- Rinse the glass rod with distilled water and transfer the washings to the volumetric flask.
- Make up the solution in the volumetric flask to the mark using distilled water.
- Shake the flask thoroughly.
- This solution of HX is **FA 3**. Label the flask **FA 3**.

### Results

#### Titration

- Fill the burette with **FA 3**.
- Pipette  $25.0 \text{ cm}^3$  of **FA 2** into a conical flask.
- Add several drops of methyl orange indicator.
- Perform a rough titration and record your burette readings in the space below.

The rough titre is .....  $\text{cm}^3$ .

# June 2013 Chemistry 9701 Paper 35 Question

**D Keegan**



**June 2013 Chemistry 9701 Paper 35 Question:**

## **June 2013 Chemistry 9701 Paper 35 Question** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**June 2013 Chemistry 9701 Paper 35 Question**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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